

PARSONS HSUE & DE RUNTZ LLP

01-18-05  
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DAE  
JRW

January 13, 2005

Mail Stop Petition  
Commissioner For Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Re: Applicant(s): Zare et al.  
Title: Fused-Silica Capillaries with Photopolymer Components  
Application No.: 10/674,652 Filing Date: September 29, 2003  
Examiner: Ernest G. Therkorn Group Art Unit: 1723  
Docket No.: STNB.055US3 Conf. No.: 4785

Dear Sir:

Transmitted herewith are the following documents in the above-identified application:

- (1) Return Receipt Postcard;
- (2) This Transmittal Letter (1 page – in duplicate);
- (3) Petition for Revival of an Application for Patent Abandoned Unintentionally Under 37 CFR 1.137(b) (2 pages);
- (4) Request for Continued Examination and Attachments (28 pages);
- (5) Supplemental Information Disclosure Statement (2 pages);
- (6) PTO Forms 1449 (7 pages);
- (7) Second Supplemental Information Disclosure Statement (2 pages);
- (8) PTO Form 1449 (1 page);
- (9) 3 References; and
- (10) Check for \$2290.00.



No additional fee is required.



The fee has been calculated as shown below:

<input checked="" type="checkbox"/>	Fee for Petition for Revival of an Application for Patent Abandoned Unintentionally Under 37 CFR 1.137(b)	\$	\$1500.00
<input checked="" type="checkbox"/>	Fee for Request for Continued Examination	\$	\$790.00
<b>Total additional fees:</b>		\$	<u>\$2290.00</u>
<input checked="" type="checkbox"/>	Conditional Petition for Extension of Time: If an extension of time is required for timely filing of the enclosed document(s) after all papers filed with this transmittal have been considered, an extension of time is hereby requested.		
<input checked="" type="checkbox"/>	Please charge any additional fees required and credit any overpayment to our Deposit Account No. 502664.		

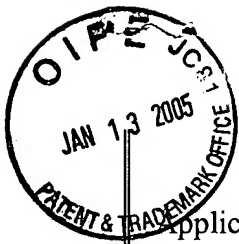
EXPRESS MAIL LABEL NO.:

EV 437668301 US

Respectfully submitted,

*Alison de Runtz*

K. Alison de Runtz  
Reg. No. 37,119



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Zare et al.  
Title: Fused-Silica Capillaries with Photopolymer Components  
Application No.: 10/674,652 Filing Date: September 29, 2003  
Examiner: Ernest G. Therkorn Group Art Unit: 1723  
Docket No.: STNB.055US3 Conf. No.: 4785

Mail Stop Petition  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**PETITION FOR REVIVAL OF AN APPLICATION FOR PATENT ABANDONED  
UNINTENTIONALLY UNDER 37 CFR 1.137(b)**

Sir:

This Petition is being filed under 37 C.F.R. § 1.137(b) for the above-referenced application, for the entire unintentional delay in filing a response to the Notice of Allowance and Fee(s) Due from the due date of September 9, 2004 until the filing of this Petition for Revival.

A response to the Notice of Allowance and Fee(s) Due accompanies this Petition in the form of a Request for Continued Examination, including Accompanying Documents, Supplemental Information Disclosure Statement, Second Supplemental Information Disclosure Statement, PTO Forms 1449, and References. A check in the amount of \$790.00 is being filed herewith for the Request for Continued Examination. Please charge any additional amount for these fees, or credit any overpayment, to Deposit Account No. 502664.

01/19/2005 SDENB081 00000059 10674652

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Attorney Docket No.: STNB.055US3  
Express Mail No.: EV437668301US

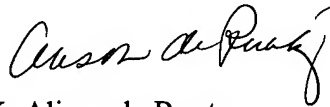
Application No.: 10/674,652

A check in the amount of \$1,500.00 is being filed herewith as the petition fee set forth in 37 C.F.R. § 1.17(m). Please charge any additional amount for this Petition, or credit any overpayment, to Deposit Account No. 502664.

An early favorable decision on this petition is solicited.

**EXPRESS MAIL  
LABEL NO:  
EV437668301US**

Respectfully submitted,



K. Alison de Runtz  
Reg. No. 37,119

PARSONS HSUE & DE RUNTZ LLP  
655 Montgomery Street, Suite 1800  
San Francisco, CA 94111  
(415) 318-1160 (main)  
(415) 693-0194 (fax)



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Zare et al.

Title: Fused-Silica Capillaries with Photopolymer Components

Application No.: 10/674,652

Filing Date: September 29, 2003

Examiner: Therkorn, Ernest G.

Group Art Unit: 1723

Docket No.: STNB.055US3

Conf. No.: 4785

Mail Stop Petition  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**REQUEST FOR CONTINUED EXAMINATION (RCE)**

Dear Sir:

A Request for Continued Examination, Attached Documents, Supplemental Information Disclosure Statement, Second Supplemental Information Disclosure Statement, PTO Forms 1449 and References are filed herewith in Response to the Notice of Allowance and Fee(s) Due for the above-referenced application. These documents are filed along with a Petition for Revival of an Application for Patent Abandoned Unintentionally Under 37 CFR1.137(b).

A Request for Continued Examination, Attached Documents, Supplemental Information Disclosure Statement, PTO Form 1449, and References were filed with the USPTO on September 9, 2004 with the incorrect application number, 09/978,515, by inadvertence. (The accompanying Transmittal document and return receipt postcard did show the correct application number, but apparently were not associated with this case by the USPTO.) Thus, a new Request for Continued Examination, Attached Documents, Supplemental Information Disclosure Statement, Second Supplemental Information

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STNB.055US3  
Express Mail No.: EV 437668301 US

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Application No. 10/674,652

Disclosure Statement, PTO Forms 1449, and References are filed herewith with the correct application number, 10/674,652.

The history of this Request for Continued Examination is as follows. Concurrently with the filing of the above-referenced application, Applicants submitted an Information Disclosure Statement, which appears as Exhibit 1. (This Information Disclosure Statement is being resubmitted as a Supplemental Information Disclosure Statement with new PTO Forms 1449 for the convenience of the Examiner.) Applicants thereafter received a return receipt postcard from the US PTO, indicating that same had been received, a copy of which appears as Exhibit 2.

In a series of telephone conversations between the undersigned and the Examiner on September 9, 2004, the undersigned explained that while the Examiner had indicated on June 9, 2004 that certain references had been considered, he had not indicated that certain other references that Applicants submitted upon the filing of the application had been considered, and that the undersigned had called him on June 25, 2004, September 3, 2004, and September 9, 2004, each time leaving a message requesting a return call to resolve this discrepancy, receiving a return call from the Examiner only on September 9, 2004.

In this same series of telephone conversations on September 9, 2004, the Examiner indicated for the first time that no information disclosure statement from Applicants was present in the file, and that he had considered references that were in the related parent application, but not the related grandparent application. The Examiner then requested that Applicants either file a Request for Continued Examination or submit an information disclosure statement and copies of the references at issue, all of which were present in the grandparent application, for his consideration. As September 9, 2004 was the last day for Applicants to take action in this application, a Request for Continued Examination of this

application was submitted, along with a Supplemental Information Disclosure Statement and associated documents, although, as mentioned above, an incorrect application number was inadvertently used.

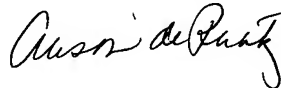
This current Request for Continued Examination is believed to address the foregoing. The RCE fee required under 37 C.F.R. § 1.17(e) is authorized in an accompanying transmittal letter. Reconsideration is respectfully requested.

Please contact the undersigned attorney with any questions concerning this request or the above-identified patent application.

**EXPRESS MAIL  
LABEL NO.:**

**EV 437668301 US**

Respectfully submitted,



K. Alison de Runtz  
Reg. No. 37,119

PARSONS HSUE & DE RUNTZ LLP  
655 Montgomery Street, Suite 1800  
San Francisco, CA 94111  
(415) 318-1160  
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**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicants: Richard N. Zare et al.  
Title: Fused-Silica Capillaries with Photopolymer Components  
Application No.: Unknown Filing Date: Herewith  
Examiner: Unknown Group Art Unit: Unknown  
Docket No.: STNB.055US3 Conf. No.: Unknown

September 29, 2003

Mail Stop Patent Application  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT  
UNDER 37 CFR § 1.97(b)**

Dear Sir:

Enclosed are copies of Disclosure Statements, PTO-1449 forms, and a PTO-892 form, which were made of record in grandparent and parent applications:

Serial No. 09/507,707, filed February 18, 2000; and

Serial No. 10/008,482, filed November 13, 2001.

The above-listed applications are relied upon by the instant application for earlier filing dates under 35 U.S.C. Section 120.

Each document listed on the various statements is incorporated herein for the Examiner's consideration. The making of each of them of record in the file of this application, is respectfully requested.

STNB.055US3

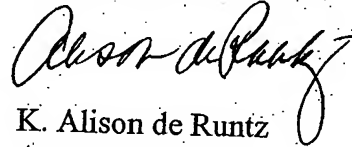
Express Mail No.: EV 321716443 US

Since these references were previously filed by Applicants, or cited by the Examiner, in the grandparent and parent patent applications 09/507,707 and 10/008,482, no copies are included. Should copies be desired, the undersigned attorney would be glad to furnish them.

**EXPRESS MAIL LABEL NO:**

**EV 321716443US**

Respectfully submitted,



K. Alison de Runtz  
Attorney of Record  
Reg. No. 37,119

Parsons Hsue & de Runtz LLP  
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(415) 693-0194 (Fax)

STNB.055US3

Express Mail No.: EV 321716443 US



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Richard N. Zare et al.  
Assignee: Stanford University  
Title: FUSED-SILICA CAPILLARIES WITH PHOTOPOLYMER COMPONENTS  
Serial No.: 10/008,482 Filed: November 13, 2001  
Examiner: Therkom, Ernest G. Group Art Unit: 1723  
Docket No.: M-11147-1C US

Certificate of Mailing Under 37 CFR 1.8

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope address to: Commissioner for Patents, Washington, D.C. 20231, on 4/7/03

Signature Gileen Bower

Commissioner for Patents  
Washington, D. C. 20231

**INFORMATION DISCLOSURE STATEMENT  
UNDER 37 CFR § 1.97(c) WITH FEE**

Dear Sir:

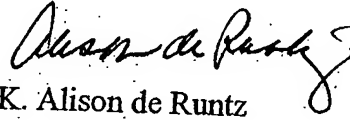
Pursuant to 37 C.F.R. § 1.56, § 1.97 and § 1.98, the documents listed on the accompanying form PTO-1449 are called to the attention of the Examiner for the above patent application. Copies of the documents are enclosed.

Listing of the these documents shall not be construed as:

1. an admission that the documents are necessarily prior art with respect to the instant invention;
2. a representation that a search has been made, or
3. an admission that the information listed herein is, or is considered to be, material to patentability as defined in § 1.56(b).

Enclosed is a check for \$180.00 for the Information Disclosure Statement fee under 37 C.F.R. § 1.17(p), as set forth in the accompanying transmittal letter.

Respectfully submitted,



K. Alison de Runtz

PARSONS HSUE & DE RUNTZ LLP  
655 Montgomery Street, Suite 1800  
San Francisco, CA 94111  
(415) 318-1160  
(415) 693-0194 (Fax)

U.S. Department of Commerce, Patent Trademark Office		Atty Do No.	Application No.
		M-11147-1C US	10/008,482
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Applicants	Confirmation No.
(Use several sheets if necessary)		Zare et al.	8199
		Filing Date	Group
		August 8, 2001	1723

U.S. Patent Documents

*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
	1	4,323,439	4/6/82	O'Farrell			
	2	4,617,102	10/14/86	Tomblin et al.			
	3	5,085,756	2/4/92	Swedberg			
	4	5,116,471	5/26/92	Chien et al.			
	5	5,202,010	4/13/93	Guzman			
	6	5,340,452	8/23/94	Brenner et al.			
	7	5,423,966	6/13/95	Wiktorowicz			
	8	5,453,382	9/26/95	Novotny et al.			
	9	5,766,435	6/16/98	Liao et al.			
	10	5,800,692	9/1/98	Naylor et al.			
	11	6,136,187	10/24/00	Zare et al.			
	12	5,772,875	6/30/98	Pettersson et al.			
	13	3,568,840	12/24/68	Hashimoto, et al.			
	14	3,757,490	9/11/73	Ma			
	15	5,308,495	5/3/94	Avnir et al.			
	16	5,316,680	5/31/94	Frechet et al.			
	17	5,334,310	8/2/94	Frechet et al.			
	18	5,552,994	6/4/96	Frechet et al.			
	19	5,647,979	7/15/97	Liao et al.			
	20	5,667,674	9/16/97	Hanggi et al.			
	21	5,719,322	2/17/98	Lansbarkis et al.			
	22	5,728,296	3/17/98	Hjerten te al.			
	23	5,728,457	3/17/98	Frechet et al.			
	24	5,759,405	6/2/98	Anderson, Jr. et al.			
	25	5,858,241	1/12/99	Dittmann et al.			
	26	4,675,300	6/23/87	Zare et al.			
	27	5,599,445	2/4/97	Betz et al.			
	28	5,637,135	6/10/97	Ottenstein et al.			
	29	3,808,125	8/25/72	Good			
	30	5,135,627	8/4/92	Soane			
	31	5,453,185	9/26/95	Frechet et al.			

	32	3,503,711	5/18/66	Sussman				
	33	5,116,495	5/26/92	Prohaska				
	34	3,878,092	4/15/75	Fuller				
Foreign Patent Documents								
	35	Document	Date	Country	Class	Subclass	Translation	
	36	WO 00/49396	8/24/00	WIPO			Yes	No
	37	EP 0 779 512	06/18/97	EP				
	38	EP 0 439 318	7/31/91	EP				
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)								
	39	C. Yu et al., "Towards Stationary Phases for Chromatography on a Microchip: Molded Porous Polymer Monoliths Prepared in Capillaries by Photoinitiated In Situ Polymerization as Separation Media for Electrochromatography," <i>Electrophoresis</i> , Vol. 21, 2000, pp. 120-127.						
	40	J. Quirino et al., "Sweeping of Analyte Zones in Electrokinetic Chromatography," <i>Analytical Chemistry</i> , Vol. 71, No. 8, April 15, 1999, pp. 1638-1644.						
	41	M. Taylor et al., "Analysis of Corticosteroids in Biofluids by Capillary Electrochromatography with Gradient Elution," <i>Analytical Chemistry</i> , Vol. 69, No. 13, July 1, 1997, pp. 2554-2558.						
	42	D.A. Stead et al., "Capillary Electrochromatography of Steroids Increased Sensitivity by On-Line Concentration and Comparison with High-Performance Liquid Chromatography," <i>Journal of Chromatography A</i> , Vol. 798, 1998, pp. 259-267.						
	43	Y. Zhang et al., "High-Efficiency On-Line Concentration Technique of Capillary Electrochromatography," <i>Analytical Chemistry</i> , Vol. 72, No. 22, November 15, 2000, pp. 5744-5747.						
	44	T. Tegeler et al., "On-Column Trace Enrichment by Sequential Frontal and Elution Electrochromatography. 1. Application to Carbamate Insecticides," <i>Analytical Chemistry</i> , Vol. 73, No. 14, July 15, 2001, pp. 3365-3372.						
	45	F. E. P. Mikkers et al., "Concentration Distributions in Free Zone Electrophoresis," <i>Journal of Chromatography</i> , Vol. 169, February 1, 1979, pp. 1-10.						
	46	R.-L. Chien et al., "On-Column Sample Concentration Using Field Amplification In CZE," <i>Analytical Chemistry</i> , Vol. 64, No. 8, April 15, 1992, pp. 489A-496A.						
	47	J. Quirino et al., "Exceeding 5000-Fold Concentration of Dilute Analytes in Micellar Electrokinetic Chromatography," <i>Science</i> , Vol. 282, October 16, 1998, pp. 465-468.						
	48	C. Yang et al., "Electrically Driven Microseparation Methods for Pesticides and Metabolites. II: On-line and Off-line Preconcentration of Urea Herbicides in Capillary Electrochromatography," <i>Electrophoresis</i> , Vol. 20, 1999, pp. 2337-2342.						
	49	M. Dulay et al., "Preparation and Characterization of Monolithic Porous Capillary Columns Loaded with Chromatographic Particles," <i>Analytical Chemistry</i> , Vol. 70, No. 23, December 1, 1998, pp. 5103-5107.						
	50	M. Dulay et al., "Photopolymerized Sol-Gel Monoliths for Capillary Electrochromatography," <i>Analytical Chemistry</i> , Vol. 73, No. 16, August 15, 2001, pp. 3921-3926.						
	51	J. Quirino et al., "New Strategy for On-Line Preconcentration in Chromatographic Separations," manuscript.						
	52	J. Quirino et al., "On-Line Preconcentration in Capillary Electrochromatography Using a Porous Monolith, Solvent Gradient and Sample Stacking," manuscript.						
	53	M. Kato et al., "Photopolymerized Sol-Gel Frits for Packed Columns in Capillary Electrochromatography," <i>Journal of Chromatography A</i> , Vol. 924, 2001, pp. 187-195.						

54	J.-R. Chen et al., "Macroporous Photopolymer Frits for Capillary Electrochromatography," <i>Analytical Chemistry</i> , Vol. 72, No. 6, March 15, 2000, pp. 1224-1227.
55	C. Viklund et al., "Molded Macroporous Poly(Glycidyl Methacrylate-Co-Trimethylolpropane Trimethacrylate) Materials with Fine Controlled Porous Properties: Preparation of Monoliths Using Photoinitiated Polymerization," <i>Chem. Mater.</i> , Vol. 9, No. 2, 1997, pp. 463-471.
56	M. Dulay et al., "Bonded-Phase Photopolymerized Sol-Gel Monoliths for Reversed Phase Capillary Electrochromatography," <i>J. Sep. Sci.</i> , Vol. 25, 2002, pp. 3-9.
57	M. Kato et al., "Effect of Preparatory Conditions on the Performance of Photopolymerized Sol-Gel Monoliths for Capillary Electrochromatography," <i>Journal of Chromatography A</i> , Vol. 961, 2002, pp. 45-51.
58	M. Kato et al., "Enantiomeric Separation of Amino Acids and Nonprotein Amino Acids Using a Particle-Loaded Monolithic Column," <i>Electrophoresis</i> , Vol. 21, 2000, pp. 3145-3151.
59	J. Quirino et al., "On-Line Preconcentration in Capillary Electrochromatography Using a Porous Monolith Together with Solvent Gradient and Sample Stacking," <i>Anal. Chem.</i> , Vol. 73, 2001, pp. 5557-5563.
60	J. Quirino et al., "Strategy for On-Line Preconcentration in Chromatographic Separations," <i>Anal. Chem.</i> , Vol. 73, 2001, pp. 5539-5543.
61	K. Morishima et al., "Toward Sol-Gel Electrochromatographic Separations on a Chip," <i>J. Sep. Sci.</i> , Vol. 25, 2002, pp. 1226-1230.
62	M.J. Hilhorst, et al., "Sensitivity Enhancement in Capillary Electrochromatography by On-Column Preconcentration," <i>Chromatographia</i> 2001, 53, February (No. 3), pp. 190-196.
63	Woo, et al., "Photopolymerization of Methyl Methacrylate with Primary Aryl- and Alkylsilanes," <i>Bulletin of the Korean Chemical Society</i> , Vol. 16, No. 11, ISSN 0253-2964, Nov. 20, 1995.
64	Cikalo, et al., "Capillary Electrochromatography," <i>Analyst</i> , July 1998, Vol. 123 pp. 87R-102R.
65	Quirino, et al., "Sample Stacking of Cationic and Anionic Analytes in Capillary Electrophoresis," <i>Journal of Chromatography, A</i> , 902 2000, pp. 119-135.
66	Quirino, et al. "Sweeping of Neutral Analytes in Electrokinetic Chromatography with High-Salt-Containing Matrixes," <i>Analytical Chemistry</i> , vol. 72, No. 8, April 15, 2000.
67	Chen, et al., "Semipreparative Capillary Electrochromatography," <i>Analytical Chemistry</i> , Vol. 73, No. 9, May 1, 2001.
68	Colon, et al., "Packing Columns for Capillary Electrochromatography," <i>Journal of Chromatography, A</i> , 887 (2000) pp. 43-53.
69	Svec, et al., "Design of the Monolithic Polymers used in Capillary Electrochromatography Columns," <i>Journal of Chromatography, A</i> , 887 (2000) pp. 3-29.
70	Constantin, et al., "Preparation of Stationary Phases for Open-Tubular Capillary Electrochromatography Using the Sol-Gel Method," <i>Journal of Chromatography, A</i> , 887 (2000) pp. 253-263.
71	Tan, et al., "Preparation and Evaluation of Bonded Linear Polymethacrylate Stationary Phases for Open Tubular Capillary Electrokinetic Chromatography," <i>Analytical Chemistry</i> , Vol. 69, No. 4, Feb. 15, 1997.
72	Chirica, et al., "Fritless Capillary Columns for HPLC and CEC Prepared by Immobilizing the Stationary Phase in an Organic Polymer Matrix," <i>Analytical Chemistry</i> , Vol. 72, No. 15, August 1, 2000, pp. 3605-3610.
73	Palm, et al., "Macroporous Polyacrylamide/Poly(ethylene glycol) Matrixes as Stationary Phases in Capillary Electrochromatography," <i>Analytical Chemistry</i> , Vol. 69, No. 22, Nov. 15, 1997, pp. 4499-4507.

74	Hayes, et al., "Gel Monolithic Columns with Reversed Electrochromatography," <i>Analytical Chemistry</i> , Vol. 72, No. 1, September 1, 2000, pp. 4090-4099.		
75	Mol, et al., "Trace Level Analysis of Micropollutants in Aqueous Samples using Gas Chromatography with On-Line Sample Enrichment and Large Volume Injection," <i>Journal of Chromatography A</i> , 703 (1995) pp. 277-307.		
76	Quirino, et al., "Approaching a Million-Fold Sensitivity Increase in Capillary Electrophoresis with Direct Ultraviolet Detection: Cation-Selective Exhaustive Injection and Sweeping," <i>Analytical Chemistry</i> , Vol. 72, No. 5, March 1, 2000, pp. 1023-1030.		
77	Rudge, et al., "Solute Retention in Electrochromatography by Electrically Induced Sorption," <i>AIChE Journal</i> , May 1993, Vol. 39, No. 5, pp. 797-808.		
78	Kitagawa, et al., "Voltage-Induced Sample Release from Anion Exchange Supports in Capillary Electrochromatography," <i>Analytical Sciences</i> , June 1998, Vol. 14, pp. 571-575.		
79	Josic, et al., "Monoliths as Stationary Phases for Separation of Proteins and Polynucleotides and Enzymatic Conversion," <i>Journal of Chromatography B</i> , 752 (2001) pp. 191-205.		
80	Peters, et al., "Molded Rigid Polymer Monoliths as Separation Media for Capillary Electrochromatography," <i>Analytical Chemistry</i> , Vol. 69, No. 17, September 1, 1997		
81	Dulay, et al., "Automated Capillary Electrochromatography: Reliability and Reproducibility Studies," <i>Journal of Chromatography A</i> , 725 (1996) pp. 361-366.		
82	Brinker, et al., "Sol-Gel Science: The physics and Chemistry of Sol-Gel Processing," <i>Academic Press</i> , San Diego, pp. 372-385, 408-411, 458-459 1990.		
83	Badini, et al., "Impregnation of a pH-Sensitive Dye into Sol-Gels for Fibre Optic Chemical Sensors," <i>Analyst</i> , 120, pp. 1025-1028, April 1995.		
84	Snyder, Introduction to Modern Liquid Chromatography, <i>John Wiley &amp; Sons, Inc.</i> , New York, 1979, pp. 145-147.		
<table border="1"> <tr> <td>Examiner</td> <td>Date Considered</td> </tr> </table>		Examiner	Date Considered
Examiner	Date Considered		
<p>*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.</p>			

FORM PTO-892  
(REV. 2-92)

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

SERIAL NO.

GROUP ART UNIT

ATTACHMENT  
TO  
PAPER  
NUMBER

10/008,482

1723

6

NOTICE OF REFERENCES CITED

APPLICANT(S)

ZARE

U.S. PATENT DOCUMENTS

		DOCUMENT NO.	DATE	NAME	CLASS	SUB-CLASS	FILING DATE IF APPROPRIATE
A	4	293415	10/81	Bente	210	198.2	
B	5	938919	8/99	Nasafabadi	210	198.2	
C							
D							
E							
F							
G							
H							
I							
J							
K							

FOREIGN PATENT DOCUMENTS

		DOCUMENT NO.	DATE	COUNTRY	NAME	CLASS	SUB-CLASS	PERTINENT SHTS. DWG.	PP. SPEC.
L									
M									
N									
O									
P									
Q									

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Richard N. Zare  
Assignee: Stanford University  
Title: Fused-Silica Capillaries with Photopolymer Components  
Serial No.: 10/008,482 Filed: November 13, 2001  
Examiner: Therkorn, Ernest G. Group Art Unit: 1723  
Docket No.: STNB.055US1 Conf. No.: 5979

Certificate of Mailing Under 37 CFR 1.8

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, Washington, D.C. 20231, on 10/24/03

Signature Shileen Bower

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT  
UNDER 37 CFR § 1.97(c) WITH FEE**

Dear Sir:

Pursuant to 37 C.F.R. § 1.56, § 1.97 and § 1.98, the documents listed on the accompanying form PTO-1449 are called to the attention of the Examiner for the above patent application. Copies of the documents are enclosed.

Listing of these documents shall not be construed as:

1. an admission that the documents are necessarily prior art with respect to the instant invention;
2. a representation that a search has been made; or

STNB.055US1

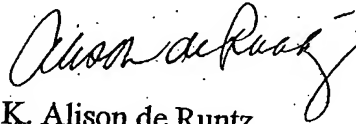
Serial No. 10/008,482



3. an admission that the information listed herein is, or is considered to be, material to patentability as defined in § 1.56(b).

Enclosed is a check for \$180.00 for the Information Disclosure Statement fee under 37 C.F.R. § 1.17(p), as set forth in the accompanying transmittal letter.

Respectfully submitted,



K. Alison de Runtz  
Attorney of Record  
Reg. No.: 37,119

Parsons Hsue & de Runtz LLP  
655 Montgomery Street, Suite 1800  
San Francisco, CA 94111  
(415) 318-1160  
(415) 693-0194 (Fax)

U.S. Department of Commerce, Patent and Trademark

INFORMATION DISCLOSURE STATEMENT BY  
APPLICANT

Atty. Docket No:

STNB.055US1

Application No.

10/008,482

Applicant(s)

Richard N. Zare

(Use several sheets if necessary)

Filing Date

November 13, 2001

Group

1723

## U.S. Patent Documents

*Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
	4,790,919	12/13/88	Baylor, Jr.			
	5,200,150	4/6/93	Rose, Jr.			
	5,916,427	6/29/99	Kirkpatrick			

## U.S. Published Patent Application Documents

*Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate

## Foreign Patent Documents

Document	Date	Country	Class	Subclass	Translation	
					Yes	No
WO 99/30147	6/17/99	PCT				

## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

International Search Report mailed October 25, 2002.

Boughtflower et al., "Capillary Electrochromatography - Some Important Considerations in the Preparation of Packed Capillaries and the Choice of Mobile Phase Buffers," *Chromatographia*, Vol. 40, No. 5/6, March 1995, pp. 329-335.

Examiner

Date Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of )

Richard N. Zare et al. )

Serial No.: 09/507,707 )

Filed: February 18, 2000 )

For: FUSED-SILICA CAPILLARIES WITH )  
PHOTOPOLYMER COMPONENTS )

Group Art Unit: 1732

San Francisco, California

Assistant Commissioner for Patents  
Washington, D.C. 20231

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231 on July 14, 2000.

Sarah Lyn Torres

Signature

Date

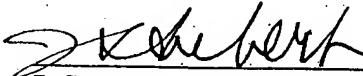
DISCLOSURE STATEMENT

Sir:

The following Form 1449 and copies of documents listed thereon are being filed herewith as a Disclosure Statement. Consideration of each of these documents by the Patent Examiner, and the making of each of them of record in the file of this application, are respectfully requested.

Respectfully submitted,

Dated: July 14, 2000.



J. Suzanne Siebert, Reg. No. 28,758  
MAJESTIC, PARSONS, SIEBERT & HSUE P.C.  
Four Embarcadero Center, Suite 1100  
San Francisco, California 94111-4106  
Telephone: (415) 248-5500  
Facsimile: (415) 362-5418

Atty. Docket: STAN.055US0

FORM PT01449  
(REV. 8-83)U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICEATTACHMENT NO.  
STAN.055US0SERIAL NO.  
09/507,707

## INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

APPLICANT  
Richard N. Zare et al.  
FILED  
February 18, 2000GROUP  
1732

## U. S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE
A1	3 5 0 3 7 1 2	3/31/70	Sussman			
A2	3 5 6 8 8 4 0	3/9/71	Hashimoto			
A3	3 7 5 7 4 9 0	9/11/73	Ma			
A4	3 8 0 8 1 2 5	4/30/74	Good			
A5	3 8 7 8 0 9 2	4/15/75	Fuller			
A6	4 6 7 5 3 0 0	6/23/87	Zare et al.			
A7	5 1 1 6 4 9 5	5/26/92	Prohaska			

## FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANS.? (YES/NO)
B1 0 4 3 9 3 1 8	31.07.91	EPO			Yes

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent pages, Etc.)

C1	Badini et al., "Impregnation of a pH-Sensitive Dye into Sol-Gels for Fibre Optic Chemical Sensors," <i>Analyst</i> , 120, pp. 1025-1028, April 1995.
C2	Brinker and Scherer, <i>Sol-Gel Science: The Physics and Chemistry of Sol-Gel Processing</i> , Academic Press, San Diego, pp. 372-385, 408-411, 458-459, 746-748, and 760, 1990.
C3	Burgi and Chien, "Optimization in Samples Stacking for High-Performance Capillary Electrophoresis," <i>Anal. Chem.</i> , 63, pp. 2042-2047, 1991.
C4	Chen et al., "Macroporous Photopolymer Frits for Capillary Electrochromatography," <i>Anal. Chem.</i> , 72, pp. 1224-1227, 2000.
C5	Chong et al., "Sol-Gel Coating Technology for the Preparation of Solid-Phase Microextraction Fibers of Enhanced Thermal Stability," <i>Anal. Chem.</i> , 69, pp. 3889-3898, 1997.
C6	Dulay et al., "Automated Capillary Electrochromatography: Reliability and Reproducibility Studies," <i>Journal of Chromatography</i> , 725, pp. 361-366, 1996.

EXAMINER

DATE CONSIDERED

\* EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PT01449  
(REV. 8-83)U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.  
STAN.055US0SERIAL NO.  
09/507,707

## INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

APPLICANT  
Richard N. Zare et al.FILED  
February 18, 2000GROUP  
1732

## U. S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE
	A8	5 1 3 5 6 2 7	8/4/92	Soane			
	A9	5 3 0 8 4 9 5	5/3/94	Avnir et al.			
	A10	5 3 1 6 6 8 0	5/31/94	Frechet et al.			
	A11	5 3 3 4 3 1 0	8/2/94	Frechet et al.			
	A12	5 4 5 3 1 8 5	9/26/95	Frechet et al.			
	A13	5 5 2 2 9 9 4	6/4/96	Frechet et al.			
	A14	5 5 9 9 4 4 5	2/4/97	Betz et al.			

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANS. ? (YES/NO)
	B2	0 7 7 9 5 1 2	18.06.97	EPO			Yes

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent pages, Etc.)

C7	Dulay et al., "Preparation and Characterization of monolithic Porous Capillary Columns Loaded with Chromatographic Particles," <i>Anal. Chem.</i> , 70, pp. 5103-5107, 1998.
C8	Etienne et al., "Photocurable Sol-Gel Coatings: Channel Waveguides for Use at 1.55 $\mu$ m," <i>Journal of Sol-Gel Science and Technology</i> , 13, pp. 523-527, 1998.
C9	Guo et al., "Hydrolytically Stable Amino-Silica Glass Coating Material for Manipulation of the Electroosmotic Flow in Capillary Electrophoresis," <i>Journal of Chromatography</i> , 744, pp. 17-29, 1996.
C10	Guo and Colón, "Modification of the Inner Capillary Surface by the Sol-Gel Method: Application to Open Tubular Electrochromatography," <i>J. Microcolumn Separations</i> , 7(5), pp. 485-491, 1995.
C11	Kenny et al., "Micropreparative Capillary Electrophoresis (MPCE) and Micropreparative HPLC of Protein Digests," <i>Techniques in Protein Chemistry IV</i> , Academic Press, San Diego, pp. 363-370, 1993.
C12	Mikkers et al., "Concentration Distributions in Free Zone Electrophoresis," <i>Journal of Chromatography</i> , 169, pp. 1-10, 1979.

EXAMINER

DATE CONSIDERED

\* EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PT01449  
(REV. 8-83)U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICEATTY. SCKET NO.  
STAN.055US0SERIAL NO.  
09/507,707

## INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

APPLICANT  
Richard N. Zare et al.FILED  
February 18, 2000GROUP  
1732

## U. S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE
	A15	5 6 4 7 9 7 9	7/15/97	Liao et al.		
	A16	5 6 6 7 6 7 4	9/16/97	Hanggi et al.		
	A17	5 7 1 9 3 2 2	2/17/98	Lansbarkis et al.		
	A18	5 7 2 8 2 9 6	3/17/98	Hjertén et al.		
	A19	5 7 2 8 4 5 7	3/17/98	Frechet et al.		
	A20	5 7 5 9 4 0 5	6/2/98	Anderson, Jr. et al.		
	A21	5 7 7 2 8 7 5	6/30/98	Pettersson et al.		

## FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANS.? (YES/NO)

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent pages, Etc.)

C13	Palm and Novotny, "Macroporous Polyacrylamide/Poly(ethylene glycol) Matrixes as Stationary Phases in Capillary Electrochromatography," <i>Anal. Chem.</i> , 69, pp. 4499-4507, 1997.
C14	Peters et al., "Molded Rigid Polymer Monoliths as Separation Media for Capillary Electrochromatography," <i>Anal. Chem.</i> , 69, pp. 3646-3649, 1997.
C15	Righetti et al., "'Laterally Aggregated' Polyacrylamide Gels for Electrophoresis," <i>Electrophoresis</i> , 13, pp. 587-595, 1992.
C16	Righetti et al., "On the Limiting Pore Size of Hydrophilic Gels for Electrophoresis and Isoelectric Focusing," <i>Journal of Biochemical and Biophysical Methods</i> , 4, pp. 347-363, 1981.
C17	Smith and Ohms, "Micropreparative Separation of Tryptic Digests by Capillary Electrophoresis and Characterization by Protein Sequencing," <i>Techniques in Protein Chemistry III</i> , Academic Press, San Diego, pp. 113-120, 1992.
C18	Snyder, <i>Introduction to Modern Liquid Chromatography</i> , John Wiley & Sons, Inc., New York, pp. 145-147, 1979.

EXAMINER:

DATE CONSIDERED

\* EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered.  
Include copy of this form with next communication to applicant.

FORM PT01449  
(REV. 8-83)U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.  
STAN.055US0SERIAL NO.  
09/507,707

## INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

APPLICANT  
Richard N. Zare et al.FILED  
February 18, 2000GROUP  
1732

## U. S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER								DATE	NAME	CLASS	SUB CLASS	FILING DATE
	A22		5	8	5	8	2	4	1	1/12/99	Dittmann et al.			
	A23		5	6	3	7	1	3	5	6/10/97	Ottenstein et al.			

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER								DATE	COUNTRY	CLASS	SUB CLASS	TRANS.? (YES/NO)

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent pages, Etc.)

C19	Swartz and Merion, "On-Line Sample Preconcentration on a Packed-Inlet Capillary for Improving the Sensitivity of Capillary Electrophoretic Analysis of Pharmaceuticals," <i>Journal of Chromatography</i> , 632, pp. 209-213, 1993.
C20	Tsuda et al., "Rectangular Capillaries for Capillary Zone Electrophoresis," <i>Anal. Chem.</i> , 62, pp. 2149-2152, 1990.
C21	Viklund et al., "'Molded' Macroporous Poly(glycidyl methacrylate-co-trimethylolpropane trimethacrylate) Materials with Fine Controlled Porous Properties: Preparation of Monoliths Using Photoinitiated Polymerization," <i>Chem. Mater.</i> , 9, pp. 463-471, 1997.

EXAMINER

DATE CONSIDERED

\* EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Richard N. Zare et al.  
Title: FUSED-SILICA CAPILLARIES WITH PHOTOPOLYMER COMPONENTS  
Serial No.: Unknown Filed: Herewith  
Examiner: Unknown Group Art Unit: Unknown  
Docket No.: STNB.055US3

September 29, 2003

Mail Stop Patent Application  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT  
UNDER 37 CFR § 1.97(b)**

Dear Sir:

Pursuant to 37 C.F.R. § 1.56, § 1.97 and § 1.98, the document listed on the accompanying form PTO-1449 is called to the attention of the Examiner for the above patent application. A copy of the document is enclosed.

Listing of this document shall not be construed as:

1. an admission that the documents are necessarily prior art with respect to the instant invention;
2. a representation that a search has been made; or

SNTB.055US3

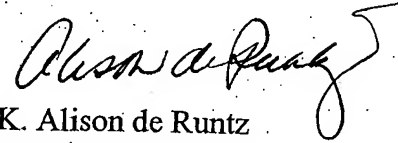


3. an admission that the information listed herein is, or is considered to be, material to patentability as defined in § 1.56(b).

**EXPRESS MAIL LABEL NO:**

**EV 321716443US**

Respectfully submitted,



K. Alison de Runtz  
Attorney of Record  
Reg. No. 37,119

Parsons Hsue & de Runtz LLP  
655 Montgomery Street, Suite 1800  
San Francisco, CA 94111  
(415) 318-1160  
(415) 693-0194 (Fax)

3.

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.

# PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

To: JAMES S. HSUE  
SKJERVEN MORRILL LLP  
THREE EMBARCADERO CENTER, 28TH FLOOR  
SAN FRANCISCO, CALIFORNIA 94111

## PCT

### NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION

(PCT Rule 44.1)

Date of Mailing  
(day/month/year)

03 JAN 2003

Applicant's or agent's file reference

M-11147-2PWO

FOR FURTHER ACTION See paragraphs 1 and 4 below

International application No.

PCT/US02/25752

International filing date  
(day/month/year)

13 AUGUST 2002

Applicant

THE BOARD OF TRUSTEES OF THE LELAND STANFORD JUNIOR COLLEGE

1. ☒ The applicant is hereby notified that the international search report has been established and is transmitted herewith.

#### Filing of amendments and statement under Article 19:

The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46):

**When?** The time limit for filing such amendments is normally two months from the date of transmittal of the international search report.

**Where?** Directly to the International Bureau of WIPO, 34 chemin des Colombettes  
1211 Geneva 20, Switzerland, Facsimile No.: (41-22) 740.14.35

For more detailed instructions, see the notes on the accompanying sheet.

2. ☐ The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect is transmitted herewith.

3. ☐ With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:
- ☐ the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.
  - ☐ no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.

#### 4. Reminders

Shortly after 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication.

Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.

In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 months.

See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the *PCT Applicant's Guide*, Volume II, National Chapters and the WIPO Internet site.

Name and mailing address of the ISA/US

Commissioner of Patents and Trademarks  
Box PCT  
Washington, D.C. 20231

Facsimile No. (703) 305-3230

Authorized officer

ERNEST G. THERKORN

Telephone No. (703) 308-0862

Jean-François  
Paralegal

Form PCT/ISA/220 (April 2002)\*

(See notes on accompanying sheet)

## PATENT COOPERATION TREATY

## PCT

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

BEST AVAILABLE COPY

Applicant's or agent's file reference M-11147-2PWO	FOR FURTHER ACTION	see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.
International application No. PCT/US02/25752	International filing date (day/month/year) 13 AUGUST 2002	(Earliest) Priority Date (day/month/year) 13 AUGUST 2001
Applicant THE BOARD OF TRUSTEES OF THE LELAND STANFORD JUNIOR COLLEGE		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 3 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

## 1. Basis of the report

a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.  
☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence listing:

☐ contained in the international application in written form.

☐ filed together with the international application in computer readable form.

☐ furnished subsequently to this Authority in written form.

☐ furnished subsequently to this Authority in computer readable form.

☐ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the

☐ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

2. ☐ Certain claims were found unsearchable (See Box I).

3. ☐ Unity of invention is lacking (See Box II).

4. With regard to the title,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the abstract,

☐ the text is approved as submitted by the applicant.

☒ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the drawings to be published with the abstract is Figure No. 1A

☒ as suggested by the applicant.

☐ because the applicant failed to suggest a figure.

☐ because this figure better characterizes the invention.

☐ None of the figures.

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/US02/25752

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : B01D 15/08  
US CL : 210/635, 656, 198.2; 95/88; 96/101

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
U.S. : 210/635, 656, 198.2; 95/88; 96/101

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	Viklund, "Preparation of Monoliths Using Photoinitiated Polymerization", Chem. Mater., 1997, 9, 463-471, Abstract, lines 1-2.	1-61
A	US 5,135,627 A (SOANE) 04 August 1992, col. 5, lines 10-12.	1-61

BEST AVAILABLE COPY

☐ Further documents are listed in the continuation of Box C. ☐ See patent family annex.

Special categories of cited documents:	
"A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E" earlier document published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O" document referring to an oral disclosure, use, exhibition or other means	"Z" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search

11 OCTOBER 2002

Date of mailing of the international search report

03 JAN 2003

Name and mailing address of the ISA/US  
Commissioner of Patents and Trademarks  
Box PCT  
Washington, D.C. 20231

Facsimile No. (703) 306-3290

Authorized officer

ERNEST G. THERKORN

Telephone No. (703) 308-0362

Lead Examiner  
Patent Specialist

**Box III TEXT OF THE ABSTRACT** (Continuation of item 5 of the first sheet)

The technical features mentioned in the abstract do not include a reference sign between parentheses (PCT Rule 8.1(d)).

**NEW ABSTRACT**

A separation column (11) and a method of preparing the separation column (11) are provided. The separation column (11) includes a separation channel (13) and a porous matrix (15) in the channel (13). The porous matrix (15) includes a metal organic polymer, such as a photopolymer. The porous matrix (15) can be a separation medium adapted to separate a sample of analytes or a frit adapted to retain a separation medium in the channel (13).

**BEST AVAILABLE COPY**

**MAIL STOP PATENT APPLICATION  
COMMISSIONER FOR PATENTS**

**P.O. BOX 1450**

**ALEXANDRIA, VA 22313-1450**

**Applicants: Zare et al.**

**Title: Fused-Silica Capillaries with Photopolymer Components**

**Application No.: Unknown**

**Filing Date: Herewith**

**Conf. No.: Unknown**

**Atty Docket No.: STNB.055US3**

**ENCLOSED:**

1. This Return Receipt Postcard
2. Continuation Application Transmittal (in duplicate - 2 pages)
3. Preliminary Amendment (3 pages)
4. Copy of Patent Application Declaration (3 pages)
5. Copy of Specification, Claims and Abstract (15 pages)
6. Information Disclosure Statement (2 pages)
7. PTO-Form 1449 (1 page)
8. 1 Reference
9. Information Disclosure Statement (2 pages)
10. Copies of IDSs (4 pages)
11. Copies of PTO Forms 1449 (9 pages)
12. Copy of PTO Form 892 (1 page)
13. Copy of Petition for Extension of Time (from parent application)
14. Check for \$750.00

**ADR/edb**

**Mailing Date: 9/29/03**

**17497 U.S. PTO**

**10/674652**



**09/29/03**

**Express Mail Label No.: EV 321716443 US**

**BEST AVAILABLE COPY**



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants:	Richard N. Zare et al.		
Title:	Fused-Silica Capillaries with Photopolymer Components		
Application No.:	10/674,652	Filing Date:	September 29, 2003
Examiner:	Therkorn, Ernest G.	Group Art Unit:	1723
Docket No.:	SNTB.055US3	Conf. No.:	4785

Mail Stop Petition  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT  
UNDER 37 CFR § 1.97(b)**

Dear Sir:

Pursuant to 37 C.F.R. §§ 1.56, 1.97 and 1.98, the documents listed on the enclosed Forms PTO-1449 are called to the Examiner's attention in this patent application.

Copies of the documents listed on the accompanying Forms PTO-1449 are not enclosed because the documents were previously submitted in grandparent Application No. 09/507,707, filed February 18, 2000, and parent Application No. 10/008,482, filed November 13, 2001. The grandparent and parent applications are relied upon by the instant application for earlier filing dates under 35 U.S.C. Section 120.

Listing of these documents shall not be construed as:

1. an admission that the documents are necessarily prior art with respect to the instant invention;
2. a representation that a search has been made; or

Attorney Docket No.: STNB.055US3  
Express Mail No.: EV 437668301US

Application No. 10/674,652



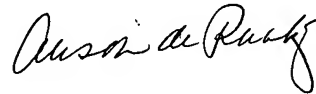
3. an admission that the information listed herein is, or is considered to be, material to patentability as defined in § 1.56(b).

This information disclosure statement is submitted under 37 C.F.R. § 1.97(b) and consequently no fee should be required. The Commissioner is authorized, however, to charge any fee that may be required, or to credit any overpayment, against Deposit Account No. 502664.

**EXPRESS MAIL LABEL NO:**

**EV 437668301 US**

Respectfully submitted,



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U.S. Department of Commerce, Patent and Trademark Office				Atty Docket No.		Application No.	
				STNB.055US3		10/674,652	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Applicants		Confirmation No.	
(Use several sheets if necessary)				Zare et al.		4785	
				Filing Date		Group	
				September 29, 2003		1723	
U.S. Patent Documents							
Examiner JAN 13 2005 PRIORITY TRADEMARK OFFICE		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
	1	5,938,919	8/1799	Najafabadi			
	2	4,293,415	10/6/81	Bente			
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	5	5,085,756	2/4/92	Swedberg			
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							Translation	
		Document	Date	Country	Class	Subclass	Yes	No
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Examiner		Date Considered
<p>*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.</p>		

U.S. Department of Commerce, Patent and Trademark				Atty. Docket No.			Application No.	
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				Applicant(s)			Confirmation No.	
(Use several sheets if necessary)				Zare et al.			4785	
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<b>U.S. Patent Documents</b>								
*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate	
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<b>U.S. Published Patent Application Documents</b>								
*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate	
<b>Foreign Patent Documents</b>								
							Translation	
		Document	Date	Country	Class	Subclass	Yes	No
	4	WO 99/30147	6/17/99	PCT				
<b>OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)</b>								
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Examiner			Date Considered					
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Foreign Patent Documents								
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		Document	Date	Country	Class	Subclass	Yes	No
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)								
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Examiner		Date Considered	
<p>*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.</p>			